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Sequence Listing was accepted.

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Reviewer: markspencer

Timestamp: [year=2008; month=8; day=12; hr=13; min=42; sec=16; ms=786;]

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Application No: 10706391

Version No: 2.0

Input Set:

Output Set:

Started: 2008-07-08 16:21:47.796

Finished: 2008-07-08 16:21:49.849

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 53 ms

Total Warnings: 71

Total Errors: 0

No. of SeqIDs Defined: 71

Actual SeqID Count: 71

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Input Set:

Output Set:

Started: 2008-07-08 16:21:47.796
Finished: 2008-07-08 16:21:49.849
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 53 ms
Total Warnings: 71
Total Errors: 0
No. of SeqIDs Defined: 71
Actual SeqID Count: 71

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W 251	Found intentionally skipped sequence in SEQID (25)
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SEQUENCE LISTING

<110> Eckert, Randal
 Qi, Fengxia
 Shi, Wenyuan
 Anderson, Maxwell H.

<120> ANTI-MICROBIAL TARGETING CHIMERIC PHARMACEUTICAL

<130> 02307k-186431US

<140> 10706391

<141> 2003-11-12

<150> US 09/378,577

<151> 1999-08-20

<150> US 09/910,358

<151> 2001-07-19

<150> US 10/077,624

<151> 2002-02-14

<160> 71

<170> PatentIn version 3.5

<210> 1

<211> 563

<212> DNA

<213> Artificial sequence

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<223> DNA encoding histatin 5 fusion to VH SWLA3

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ccctgtacct gcaaagacc agtctgaagt ctgaggacac agccatgtat tactgttcaa 480

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Lys	His	His	Ser	His	Arg	Gly	Tyr	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly
			20					25					30		
Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Asp	Val	Lys	Leu	Val	Glu	Ser	Gly
			35				40					45			
Gly	Gly	Leu	Val	Asn	Pro	Gly	Gly	Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala
			50				55				60				
Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	Thr	Met	Ser	Trp	Val	Arg	Gln	Thr
65					70					75					80
Pro	Glu	Lys	Arg	Leu	Glu	Trp	Val	Ala	Ser	Ile	Ser	Ser	Gly	Gly	Thr
				85					90					95	
Tyr	Thr	Tyr	Tyr	Pro	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg
			100					105					110		
Asp	Asn	Ala	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Thr	Ser	Leu	Lys	Ser
			115				120					125			
Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Ser	Arg	Asp	Asp	Gly	Ser	Tyr	Gly
			130				135					140			
Ser	Tyr	Tyr	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Ser	Val	Thr
145					150					155					160
Val	Ser	Ser	Ala	Ser											
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ctttcagtag ctataccatg tcttgggttc gccagactcc ggagaagagg ctggagtggg	300
tcgcatccat tagtagtggt ggtacttaca cctactatcc agacagtgtg aagggccgat	360
tcaccatctc cagagacaat gccaaagaaca ccctgtacct gcaaatgacc agtctgaagt	420

ctgaggacac agccatgtat tactgttcaa gagatgacgg ctctacggc tcctattact 480

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<211> 155
<212> PRT
<213> Artificial sequence

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<223> Dhvar 1 fusion to VH SWLA3

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Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Val
20 25 30
Lys Leu Val Glu Ser Gly Gly Gly Leu Val Asn Pro Gly Gly Ser Leu
35 40 45
Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Thr Met
50 55 60
Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val Ala Ser
65 70 75 80
Ile Ser Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val Lys Gly
85 90 95
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
100 105 110
Met Thr Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ser Arg
115 120 125
Asp Asp Gly Ser Tyr Gly Ser Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly
130 135 140
Gln Gly Thr Ser Val Thr Val Ser Ser Ala Ser
145 150 155

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<223> histatin 5 Synthesized using sequential PCR techniques

<400> 5

Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys Phe His Glu
1 5 10 15
Lys His His Ser His Arg Gly Tyr
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<210> 6
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<213> Artificial sequence

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<223> dhvar 1 Synthesized using sequential PCR techniques

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Lys Arg Leu Phe Lys Glu Leu Lys Phe Ser Leu Arg Lys Tyr

1 5 10

<210> 7

<211> 89

<212> DNA

<213> Artificial sequence

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<223> Synthetic Primer 986

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ggcggatccg acgtgaagct tgtggagtc 89

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<211> 84

<212> DNA

<213> Artificial sequence

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<223> Synthetic Primer 987

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aagcaccact cgcacagagg atac 84

<210> 9

<211> 75

<212> DNA

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<223> Synthetic Primer 988

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tccagtgtga tagcc 75

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cgcaagtac 69

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<223> Synthetic Primer 991

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tccag 65

<210> 13
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<400> 13
tgggtcgacw gatggggstg ttgtgctagc tgaggagac 39

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<223> Consensus sequence among targeting amino acid sequences

from PhD-12

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<223> Xaa is Val, Gln or His

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<222> (2)..(2)

<223> Xaa is Pro or His

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<222> (5)..(5)

<223> Xaa is Phe or Tyr

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<221> MISC_FEATURE

<222> (6)..(6)

<223> Xaa is Lys or His

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<221> MISC_FEATURE

<222> (7)..(7)

<223> Xaa is His or Ala

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<221> MISC_FEATURE

<222> (8)..(8)

<223> Xaa is Leu or His

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<223> Xaa is Lys or Arg

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<400> 14

Xaa Xaa His Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<212> PRT
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<400> 15

Arg Gly Gly Arg Leu Cys Tyr Cys Arg Arg Arg Phe Cys Val Cys Val
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Gly Arg

<210> 16
<211> 18
<212> PRT
<213> Artificial sequence

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<223> Novispirin G10

<400> 16

Lys Asn Leu Arg Arg Ile Ile Arg Lys Gly Ile His Ile Ile Lys Lys
1 5 10 15

Tyr Gly

<210> 17
<211> 15
<212> PRT
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<220>
<223> Linker peptide for PG-1 and N-terminus of VH

<400> 17

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

<210> 18

<211> 8

<212> PRT

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<223> Linker peptide for C-terminus of VH and N-terminus of VL

<400> 18

Gly Gly Gly Ser Gly Gly Gly Ser

1 5

<210> 19

<211> 57

<212> DNA

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<223> coding region of protegrin PG-1

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<210> 20

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<223> Synthetic Amplification primer PG-1F for PG-1-VH

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gggaattccg tggcggtcgc ctatgctac 29

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<211> 44

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<223> Synthetic Amplification primer VHR2 for PG-1-VH

<400> 21

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<210> 22

<211> 39

<212> DNA

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<223> Synthetic Amplification primer VLF2 for VL fragment

<400> 22

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<210> 23

<211> 47

<212> DNA

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<223> Synthetic Amplification primer VLR2 for VL fragment

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<210> 24

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<223> PhD-12 clone 12:1

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Val Pro His Glu Phe Lys His Leu Gln Met Lys Pro

1 5 10

<210> 25

<400> 25

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His His His Lys Ala Leu Ala Pro Thr Val Thr Gly

1 5 10

<210> 27

<211> 12

<212> PRT

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<223> PhD-12 clone 12:4

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Gln Pro His Pro His Lys Val His Ser Leu Pro Pro
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<223> PhD-12 clone 12:10

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Gln Pro Ala Pro Tyr Ile Ser Ser Pro Ser Ala Ser
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<223> peptide SA5.1 specific for S. aureus

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Val Arg Leu Pro Leu Trp Leu Pro Ser Leu Asn Glu
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Ala Asn Tyr Phe Leu Pro Pro Val Leu Ser Ser Ser
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<223> peptide SA5.6 specific for S. aureus

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Trp Thr Pro Leu His Pro Ser Thr Asn Arg Pro Pro
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<400> 51

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1 5 10

<210> 52
<211> 12
<212> PRT
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<220>
<223> peptide DH5.1 specific for E. coli

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Lys His Leu Gln Asn Arg Ser Thr Gly Tyr Glu Thr
1 5 10

<210> 53

<211> 12

<212> PRT

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<223> peptide DH5.2 specific for E. coli

<400> 53

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<210> 54

<211> 12

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<213> Artificial sequence

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<223> peptide DH5.3 specific for E. coli

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Thr Ile Thr Pro Thr Asp Ala Glu Met Pro Phe Leu
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<210> 55

<211> 12

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<223> peptide DH5.4 specific for E. coli

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1 5 10

<210> 56

<211> 12

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<223> peptide DH5.5 specific for E. coli

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<210> 57

<211> 12

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<400> 57

Val Asn Thr Leu Gln Asn Val Arg His Met Ala Ala
1 5 10

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